



*[Signature]*  
PATENT  
Atty. Dkt. No. APPM/3032.C6/DSM/LOW K/JP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Cheung et al.  
Patent No.: 6,930,061  
Issued: August 16, 2005  
Serial No.: 10/648,616  
Filed: August 26, 2003  
For: PLASMA PROCESSES  
FOR DEPOSITING LOW  
DIELECTRIC CONSTANT  
FILMS

§  
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§ Group Art Unit: 2818  
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§ Examiner: Thao P. Le  
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Certificate  
JUN 26 2006  
of Correction  
06/23/2006 BABRAHA1 00000006 200782 6930061  
01 FC:1811 100.00 DA

Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING 37 CFR 1.8	
I hereby certify that this correspondence is being deposited on <u>6/20</u> , 2006 with the United States Postal Service as First Class Mail in an envelope addressed to: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.	
<u>6/20/06</u> Date	<u><i>[Signature]</i></u> Signature

Dear Sir:

REQUEST FOR CERTIFICATE OF CORRECTION

Attached is a Certificate of Correction for correcting several errors throughout the printed patent.

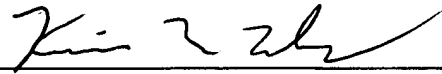
The correct cities of residence for inventors Shin-Puu Jeng and Tze Wing Poon were given in the Combined Declaration and Power of Attorney signed by the inventors, a copy of which is attached. The correct cities of residence also appear on the Corrected Filing Receipt, dated June 22, 2004, also attached hereto.

The correct Related U.S. Application Data appears on the Corrected Filing Receipt, dated June 22, 2004, attached hereto. The error on the printed patent is an error in the order of the clauses, resulting in a change of meaning.

Applicants submit that at least one of the other typing errors mentioned above was made by the applicant. Therefore, please charge the fee of \$100.00 to deposit account no. 20-0782/APPM/3032.C6 (KMT).

JUN 26 2006

Respectfully submitted,



---

Keith M. Tackett

Registration No. 32,008

PATTERSON & SHERIDAN, L.L.P.

3040 Post Oak Blvd. Suite 1500

Houston, TX 77056

Telephone: (713) 623-4844

Facsimile: (713) 623-4846

Agent for Applicant(s)

2006

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO. : 6,930,061

Page 1 of 1

APPLICATION NO. : 10/648,616

DATED : Aug. 16, 2005

INVENTOR(S) : David CHEUNG, Wai-Fan YAU, Robert P. MANDAL, Shin-Puu JENG, Kuo-Wei LIU, Yung-Cheng LU,  
Michael BARNES, Ralf B. WILLECKE, Farhad MOGHADAM, Tetsuya ISHIKAWA, Tze Wing POON

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

### On the Cover of the Patent

#### Section 75 (Inventors):

Change Shin-Puu Jeng's city of residence from "Cupertino, CA (US)" to --Hsinchu (TW)--

Change Tze Wing Poon's city of residence from "San Francisco, CA (US)" to --Sunnyvale, CA (US)--

#### Section 63 (Related U.S. Application Data):

Delete ", which is a continuation-in-part of application No. 09/021,788, filed on Feb. 11, 1998, now Pat. No. 6,054,379" from its current location

Insert --, which is a continuation-in-part of application No. 09/021,788, filed on Feb. 11, 1998, now Pat. No. 6,054,379-- after "Pat. No. 6,348,725"

### In the Specification

Column 5, Line 56: Change "methyphenylsilane" to --methylphenylsilane--

Column 10, Line 55: Change "inc." to --Inc.--

Column 15, Line 2: Change "(CH<sub>3</sub>)<sub>2</sub> SiH<sub>2</sub>" to --(CH<sub>3</sub>)<sub>2</sub>SiH<sub>2</sub>--

Column 15, Line 50 and Column 16, Line 64: Change each occurrence of "D Position" to --Deposition--

Column 17, Line 30: Before "deposited", change "the" to --then--

Column 18, Line 56: Before "demonstrates", delete "and"

#### MAILING ADDRESS OF SENDER (Please do not use customer number below):

Keith M. Tackett  
PATTERSON & SHERIDAN, L.L.P.  
3040 Post Oak Blvd., Suite 1500  
Houston, TX 77056-6582

400b

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

REC'D JUN 29 2004

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
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 P.O. Box 1450  
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 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/648,616	08/26/2003	1762	1064	AMAT/3032.C6/DSM/LOW K/JW	10	28	5

CONFIRMATION NO. 4378

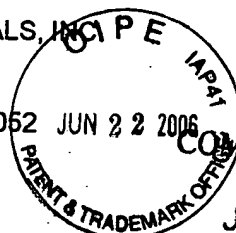
CORRECTED FILING RECEIPT



\*OC000000013034810\*

Date Mailed: 06/22/2004

APPLIED MATERIALS, INC.  
 Patent Counsel  
 P.O. Box 450-A  
 Santa Clara, CA 95052



COMPUTER ENTERED

JUN 29 2004

COPY

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

David Cheung, Foster City, CA;  
 Wai-Fan Yau, Mountain View, CA;  
 Robert P. Mandal, Saratoga, CA;  
 Shin-Puu Jeng, Hsinchu, TAIWAN;  
 Kuo-wei Liu, Campbell, CA;  
 Yung-Cheng Lu, San Jose, CA;  
 Michael Barnes, San Ramon, CA;  
 Ralf B. Willecke, Santa Clara, CA;  
 Farhad Moghadam, Los Gatos, CA;  
 Tetsuya Ishikawa, Santa Clara, CA;  
 Tze Wing Poon, Sunnyvale, CA;

## Assignment For Published Patent Application

Applied Materials, Inc.;

## Domestic Priority data as claimed by applicant

This application is a CON of 09/957,551 09/19/2001 PAT 6,660,656  
 which is a CON of 09/247,381 02/10/1999 PAT 6,348,725  
 which is a CIP of 09/021,788 02/11/1998 PAT 6,054,379  
 and is a CIP of 09/114,682 07/13/1998 PAT 6,072,227  
 and is a CIP of 09/162,915 09/29/1998 PAT 6,287,990  
 and is a CIP of 09/185,555 11/04/1998 PAT 6,303,523

## Foreign Applications

JUN 26 2006

**If Required, Foreign Filing License Granted: 11/15/2003**

**Projected Publication Date: Not Applicable**

**Non-Publication Request: No**

**Early Publication Request: No**

**Title**

Plasma processes for depositing low dielectric constant films

**COPY**

**Preliminary Class**

427

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

155 100 4006



Atty. Dkt. No.3032/P2/PDD/LOWK

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

**COPY**

### INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### TITLE OF INVENTION

**"PLASMA PROCESSES FOR DEPOSITING LOW DIELECTRIC CONSTANT FILMS"**

### SPECIFICATION IDENTIFICATION

The specification of which:

- ☐ is attached hereto
- ☒ was filed on **February 10, 1999**, under Serial No. 09/247,381, executed on even date herewith; or
- ☐ Express Mail No.(as Serial No. not yet known)
- and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_
- filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_

### ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

JUN 22 2006

# PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

**COPY**

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

Country/PCT	Application No	Date Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:

Application No:

Filing date:

## PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

☐ No such applications have been filed

☒ Such applications have been filed, as follows:

Serial No.	Filing Date	Status		
		Patented	Pending	Abandoned
09/162,915	September 29, 1998		X	
09/021,788	February 11, 1998		X	
09/114,682	July 13, 1998		X	
09/189,555	November 11, 1998		X	

JUN 26 2006

## POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
<del>Donald Verplancken</del>	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Keith M. Tackett	Registration No. 32,008
B. Todd Patterson	Registration No. 37,906

**COPY**

Send correspondence to:

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
3050 Bowers Avenue  
Santa Clara, CA 95054.

Direct telephone calls to:

B. Todd Patterson  
(713) 623-4844

## DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of sole or first inventor:

DAVID CHEUNG

Inventor's signature: \_\_\_\_\_

Date: 4/8/99

Residence:

Foster City, California 94404

Post Office Address:

235 Billingsgate Lane  
Foster City, California 94404  
U.S.A.

Country of Citizenship: USA

Full name of second inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: 4/8/99

Residence:

Mountain View, California

Post Office Address:

1568 Grevel Lane  
Mountain View, California  
U.S.A.

Country of Citizenship: USA



Full name of third inventor:

ROBERT P. MANDAL

Inventor's signature: \_\_\_\_\_

Date: April 7, 1999

Residence: Saratoga, California 95070

Post Office Address: 12472 Arroyo de Arguello  
Saratoga, California 95070  
U.S.A.

Country of Citizenship: USA

**COPY**

Full name of fourth inventor:

SHIN-PUU JENG

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Cupertino, California 95014

Post Office Address: 20804 Dunbar Drive  
Cupertino, California 95014  
U.S.A.

Country of Citizenship: USA

Full name of fifth inventor:

KUO-WEI LIU

Inventor's signature: \_\_\_\_\_

Date: 4/7/99

Residence: Campbell, California 95008

Post Office Address: 163 N. San Tomas Aquino Rd.  
Campbell, California 95008  
U.S.A.

Country of Citizenship: USA

Full name of sixth inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_

Date: 4/7/99

Residence: San Jose, California 95117

Post Office Address: 3671 Greenlee Drive #3  
San Jose, California 95117  
U.S.A.

Country of Citizenship: TAIWAN

Full name of seventh inventor:

MICHAEL BARNES

Inventor's signature: \_\_\_\_\_

Date: 4/9/99

Residence: San Ramon, California 94583

Post Office Address: 409 Pine Ridge Drive  
San Ramon, California 94583  
U.S.A.

Country of Citizenship: USA

Full name of eighth inventor:

RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_

Date: 4/7/99

Residence: Santa Clara, California

Post Office Address: 2250 Monroe St. #336  
Santa Clara, California 95050  
U.S.A.

Country of Citizenship: Germany

Full name of ninth inventor:

FARHAD MOGHADAM

Inventor's signature:

*Farhad moghadam*

Date:

4/7/99

Residence:

Los Gatos, California 95030-1653

Post Office Address:

276 Old Adobe Road

Los Gatos, California 95030-1653

U.S.A.

Country of Citizenship: USA

**COPY**

Full name of tenth inventor:

TETSUYA ISHIKAWA

Inventor's signature:

*Tetsuya Ishikawa*

Date:

4/8/99

Residence:

Santa Clara, California 95050

Post Office Address:

873 Blossom Drive

Santa Clara, California 95050

U.S.A.

Country of Citizenship: JAPAN

Full name of eleventh inventor:

TZE WING POON

Inventor's signature:

*Tze Wing Poon*

Date:

4/12/99

Residence:

San Francisco, California 94147

Post Office Address:

1267 Lakeside Drive #2077

San Francisco, California 94147

U.S.A.

Country of Citizenship: United Kingdom

(Declaration ends with this page)

# COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part



**COPY**

## INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## TITLE OF INVENTION

**"PLASMA PROCESSES FOR DEPOSITING LOW DIELECTRIC CONSTANT FILMS"**

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The specification of which:

- ☐ is attached hereto
- ☒ was filed on February 10, 1999, under Serial No. 09/247,381, executed on even date herewith;  
or  
☐ Express Mail No.(as Serial No. not yet known)  
and was amended on \_\_\_\_\_ (if applicable)
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

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- ☒ No such applications have been filed.
- ☐ Such applications have been filed as follows:

**COPY**

- A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119

Country/PCT	Application No	Date Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

- B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application

Country:  
Application No:  
Filing date:

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- ☒ Such applications have been filed, as follows:

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		Patented	Pending	Abandoned
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			X	
09/021,788			February 11, 1998	
			X	
09/114,682			July 13, 1998	

JUN 26 2006

09/189,555

X  
November 11, 1998  
X

### POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Keith M. Tackett	Registration No. 32,008
B. Todd Patterson	Registration No. 37,906

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
3050 Bowers Avenue  
Santa Clara, CA 95054.

B. Todd Patterson  
(713) 623-4844

### DECLARATION

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Full name of sole or first inventor: DAVID CHEUNG

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Foster City, California 94404  
Post Office Address: 235 Billingsgate Lane  
Foster City, California 94404  
U.S.A.

Country of Citizenship: USA

Full name of second inventor:

WAI-FAN YAU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Mountain View, California  
Post Office Address: 1568 Gretel Lane  
Mountain View, California  
U.S.A.

Country of Citizenship: USA

**COPY**

JUN 26 2006

Full name of third inventor:

ROBERT P. MANDAL

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Saratoga, California 95070

Post Office Address:

12472 Arroyo de Arguello

Saratoga, California 95070

U.S.A.

Country of Citizenship: USA

COPY

Full name of fourth inventor:

SHIN-PUU JENG

Inventor's signature: SL-8

Date: 4/6/99

Residence:

Hsinchu, Taiwan

Post Office Address:

68 Min-Jyh St

Hsinchu, Taiwan

Country of Citizenship: USA

Full name of fifth inventor:

KUO-WEI LIU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Campbell, California 95008

Post Office Address:

163 N. San Tomas Aquino Rd.

Campbell, California 95008

U.S.A.

Country of Citizenship: USA

Full name of sixth inventor:

YUNG-CHENG LU

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Jose, California 95117

Post Office Address:

3671 Greenlee Drive #3

San Jose, California 95117

U.S.A.

Country of Citizenship: TAIWAN

Full name of seventh inventor:

MICHAEL BARNES

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Ramon, California 94583

Post Office Address:

409 Pine Ridge Drive

San Ramon, California 94583

U.S.A.

Country of Citizenship: USA

Full name of eighth inventor:

RALF B. WILLECKE

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Santa Clara, California

Post Office Address:

2250 Monroe St. #336

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U.S.A.

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JUN 22 2006

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JUN 02 2006